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# The Connecticut Agricultural Experiment Station.

## BULLETIN No. 85.

OCTOBER, 1885.

The object of these Bulletins is to place in the hands of those concerned the results of the station work as promptly as possible.

As required by law, a package of each Bulletin is mailed to every post-office in the State. The package is directed to the Postmaster, with a request to distribute to farmers. The number sent will be increased in any case on application.

The Bulletins are also regularly sent to every newspaper in the State, and to the Secretary of each Agricultural society, Farmer's club and Grange whose address is known to the Station.

The Bulletins will be regularly sent, also, on application, to any private address in Connecticut. Such application, as a rule, must be renewed annually.

To citizens of other States remitting fifty cents, the publications of the current year, including Bulletins and Annual Report, will be mailed as they appear. Applications should be made early in the year.

### FERTILIZER ANALYSES.

When not otherwise stated the samples whose analyses are given below were drawn by an agent of the Station.

#### MURIATE OF POTASH.

**1520.** Muriate of Potash. Stock of G. B. Forrester, New York. Sampled and sent by S. B. Wakeman, Saugatuck.

**1521.** Muriate of Potash. Stock of G. B. Forrester, New York. Sampled and sent by W. H. Couch, Saugatuck.

## ANALYSES.

	1520	1521
Potash found .....	53.43	52.65
Potash guaranteed .....	-----	-----
Equivalent muriate .....	84.6	83.39
Cost per ton .....	\$42.50*	42.50*
Potash costs per pound .....	3.98 cts.	4.03 cts.

\* In New York.

## SULPHATE OF AMMONIA.

**1527.** Sulphate of Ammonia. Sold by E. H. Wardwell, New York. From lot purchased by J. J. Webb, Hamden.

**1522.** Sulphate of Ammonia. Sold by Mapes' Branch, Hartford.

## ANALYSES.

<b>1527.</b> Nitrogen found .....	20.65, equivalent to ammonia, 25.07
<b>1522.</b> Nitrogen found .....	20.57, equivalent to ammonia, 24.9
Cost per ton .....	\$76.00
Nitrogen costs per pound 18.4 cents.	

## NITRATE OF SODA.

**1515.** Nitrate of Soda. Sold by Mapes' Formula and Peruvian Guano Co. From stock of Wilson & Burr, Middletown.

## ANALYSIS.

	1515
Nitrogen .....	16.13
Equivalent nitrate of soda .....	97.9
Cost per ton .....	\$52.50
Nitrogen costs per pound .....	16.2 cts.

## TANKAGE.

**1463.** Tankage. Sold by F. S. Andrew & Co., New Haven. Sampled and sent by W. T. Andrew, Tyler City.

## ANALYSIS.

	1463
Nitrogen .....	4.02
Phosphoric acid .....	4.83
Cost per ton .....	\$20.00
Valuation per ton .....	20.67

## DRIED BLOOD.

**1467.** Dried Blood. Sold by Williams, Clark & Co., 101 Pearl street, New York. Stock of E. S. Roberts, East Canaan.

## ANALYSIS.

	<b>1467</b>
Nitrogen .....	11.67
Cost per ton .....	\$40.00
Nitrogen costs per pound .....	17.1 cts.

## BONE AND BLOOD.

**1529.** Bone and Blood. Sold by Sperry & Barnes, New Haven. Stock of Sperry & Barnes. Sampled and sent by J. J. Webb, Hamden.

## ANALYSIS.

	<b>1529</b>
Nitrogen .....	7.14
Phosphoric acid .....	7.39
Valuation per ton .....	\$34.57

## FISH GUANO.

**1479.** Bowker's Dry Fish. Made by the Bowker Fertilizer Co. Stock of Coburn & Gale, Hartford. Sampled and sent by W. F. Andross, East Hartford. Nitrogen guaranteed, 8 per cent.

**1501.** Ground Fish. Made by Williams, Clark & Co., New York. Stock of W. C. Reynolds, East Haddam.

**1451.** Fish Guano. Made by H. Preston & Sons, Greenpoint, L. I. Stock of Smith & Sons, West Cornwall. Guaranteed nitrogen 3.5, phosphoric acid 5.

## ANALYSES.

	<b>1479</b>	<b>1501</b>	<b>1451</b>
Nitrogen .....	8.05	8.68	3.91
Phosphoric acid, soluble .....	.93	1.02	2.42
"        reverted .....	4.44	4.12	2.55
"        insoluble .....	2.17	1.23	.84
Cost per ton .....	\$38.00	\$38.00	\$37.50
Valuation per ton .....	39.49	40.66	23.19



	Formula.	Mr. Webb's Sample.	Station Sample.
		<b>1538.</b>	<b>1539.</b>
Nitrogen, .....	5.20	5.02	5.09
Soluble Phosphoric Acid, .....		6.15	6.20
Reverted Phosphoric Acid, .....		1.75	2.65
Insoluble Phosphoric Acid, .....		1.54	.62
Total Phosphoric Acid, .....	9.09	9.44	9.47
Potash, .....	7.76	8.05	8.10
Valuation per ton, .....		\$40.01	\$41.09

The composition of the two samples is almost identical. They contain somewhat more potash and phosphoric acid and a little less nitrogen than corresponds to the formula but the agreement is as close as could be expected.

The total cost of the materials (13,456 pounds) delivered in New Haven was stated by Mr. Webb to be \$215.06 or \$31.96 per ton.

**1508.** Home-mixed Tobacco Fertilizer. Sampled and sent by Abner Trask, East Hartford. It is stated to consist of a mixture of

2,000	pounds	Cotton Seed Meal.
1,000	"	Cotton Hull Ashes.
500	"	Lime.
500	"	Plaster.
<hr/>		
4,000		

and to cost \$25.42 per ton. Whether this includes the cost of mixing is not stated.

#### ANALYSIS.

	<b>1508.</b>
Nitrogen, .....	3.37
Soluble Phosphoric Acid, .....	Trace
Reverted Phosphoric Acid, .....	2.08
Insoluble Phosphoric Acid, .....	.12
Potash, .....	5.44
Cost per ton, .....	25.42
Valuation, .....	\$23.40

## THE CHARTER OAK FERTILIZER.

**1452.** Made by Paul Thomson, Colt's Dyke, Hartford. Stock of S. W. Elliot, Salisbury.

## ANALYSIS.

Water, .....	22.54
Organic matter, .....	12.70
Ash, .....	64.76
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	100.00

The guaranteed and actual composition are as follows :

	Found.	Guaranteed.
Nitrogen, .....	1.18	1.6
Soluble Phosphoric Acid, .....	Trace }	2.5
Reverted Phosphoric Acid, .....	.95 }	
Insoluble Phosphoric Acid, .....	.28	
Potash, .....	2.67	2.0
Sand and Soil, .....	43.51	

More than three-fifths of this fertilizer are made up of useless material, sand and water. Its cost is \$30, its valuation \$8.26.



# BONE MANURES.

Station No.	Name or Brand.	Manufacturer.	Dealer.	Sampled and sent by
1436	Buffalo Chemical Co's Pure Ground Bone.	Buffalo Fertilizer Works, L. L. Crocker, Buffalo, N. Y.	J. E. Leonard, Jewett City.	Station Agent.
1433	E. Frank Coe's Ground Bone.	E. Frank Coe, 16 Burling Shp. N. Y.	John A. Paine, Danielsonville.	Station Agent.
1525	Lister's Crescent Bone.	Lister Brothers, Newark, N. J.	Swan's Seed Store, Bridgeport.	Station Agent.
1461	Ground Bone.	H. Preston & Sons, Greenpoint, L. I.	Brewster & Burnett, Norwich.	Harvey Elliott, N. Guilford.
1420	Preston's Ground Bone.	Williams, Clark & Co., 109 Pearl St., N. Y.	Station Agent.	Station Agent.
1507	Bone and Potash.		J. F. Silliman, New Canaan.	Station Agent.

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# BONE MANURES.

Station Number.	Name or Brand.	Nitrogen.	Phosphoric Acid.	Potash.	Finer than				Coarser than 16-inch.	Cost per ton.	Valuation per ton.
					150 inch.	135 inch.	112 inch.	146 inch.			
1436	Buffalo Chemical Works' Pure Ground Bone	4.26	23.53	---	37	26	37	--	--	\$40.00	\$39.51
1433	E. Frank Coe's Ground Bone	2.63	15.42	2.05	64	16	12	8	0	38.00	26.30
1525	Lister's Crescent Bone	3.55	12.64	---	44	19	21	15	1	30.00	25.00
1461	Ground Bone	3.99	21.61	---	2	2	7	11	78	---	26.75
1420	Preston's Ground Bone	4.25	13.29	---	50	17	16	9	8	32.00	27.95
1507	Bone and Potash	1.55	8.40	4.90	58	15	20	6	1	34.00	20.18

# SUPERPHOSPHATES, SPECIALS AND GUANOS.

Station No.	Name or Brand.	Manufacturer.	Dealer.	Sampled and Sent by
1510	Buffalo Fertilizer Work's Superphosphate. [2]	Buffalo Fertilizer Works, Buffalo, N. Y.	S. E. Case, New Hartford.	Station Agent.
1411	Buffalo Fertilizer Work's Ammoniated Bone Superphosphate.	Buffalo Fertilizer Works, Buffalo, N. Y.	James Greenfield, New London.	"
1509	Buffalo Fertilizer Work's Ammoniated Bone Superphosphate.	Buffalo Fertilizer Works, Buffalo, N. Y.	-----	E. E. Meeker, New Preston.
1528	Baker's Acid Phosphate, 17-19 per cent.	H. J. Baker & Bro., New York.	-----	Station Agent. From J. J. Webb.
1551	Bay State Fertilizer.	Clark's Cove Guano Co., New Bedford, Mass.	Lewis Chamberlain, Coventry.	A. H. Pomeroy, Coventry.
1469	Bowler's Fish and Potash.	Bowler Fertilizer Co., New York and Boston.	L. H. Kierns, Bristol.	Station Agent.
1494	Russell Coe's Soluble Bone Phosphate.	Russell Coe Fertilizer Co., 88 Wall St., New York.	M. S. Baldwin, Naugatuck.	M. S. Baldwin, Naugatuck.
1491	Russell Coe's Soluble Bone Phosphate.	Russell Coe Fertilizer Co., 88 Wall St., New York.	-----	E. E. Meeker, New Preston.
1492	Davidge Brand A. A. Ammoniated Bone Superphosphate.	Russell Coe Fertilizer Co., 88 Wall St., New York.	-----	"
1519	Dissolved Bone Black.	G. B. Forrester, 169 Front St., New York.	-----	"
1416	Farmer's Friend Ammoniated Dissolved Bone.	Read & Co., New York.	M. V. B. Lamb, Norwich.	S. B. Wakeman, Saugatuck.
1498	Miles' I. X. L. Superphosphate.	G. W. Miles Co., Milford.	G. W. Miles Co., Milford.	Station Agent.
1454	G. W. Miles' Fish Fertilizer and Potash.	"	Burtis & Mead, New Canaan.	Henry Brown, New Haven.
1524	Mapes' High Grade Bone Superphosphate.	Mapes' Formula and Peruvian Guano Co., New York.	Mapes' Branch, Hartford.	Station Agent.
1523	Mapes' Pure Fine Bone Dissolved in Sulphuric Acid.	Mapes' Formula and Peruvian Guano Co., New York.	"	"
1448	Original Coe's Superphosphate of Lime.	Bradley Fertilizer Co., Boston, Mass.	Smith & Sons, West Cornwall.	"
1450	Preston's Ammoniated Bone Superphosphate.	H. Preston & Sons, Greenpoint, L. I.	"	"
1506	Stearns' Ammoniated Bone Superphosphate.	Stearns & Co., New York.	The Platt Mill Co., Waterbury.	"

**SUPERPHOSPHATES, SPECIALS AND GUANOS.—Continued.**

Station No.	Name or Brand.	Manufacturer.	Dealer.	Sampled and Sent by
<b>1430</b>	Stearns' Fish and Potash, No. 1.	Stearns & Co., New York.	J. E. Leonard, Jewett City.	Station Agent.
<b>1504</b>	Union County Fertilizer.	Union County Fertilizer Co., Linden, N. J.	Union Fertilizer Co.	Stephen Sanford, Rodding Ridge.
<b>1470</b>	U. S. Superphosphate.	Lister Bros., Newark, N. J.	Swan's Seed Store, Bridgeport.	Station Agent.
<b>1435</b>	Fish and Potash.	Williams, Clark & Co., New York.	John A. Paine, Danielsonville.	"
<b>1550</b>	Americus Ammoniated Bone Superphosphate.	"	Andrew Kingsbury, Coventry.	A. H. Pomeroy, Coventry.
<b>1462</b>	Baker's Complete Corn Manure.	H. J. Baker & Bro., 215 Pearl St., New York.	C. S. Smith, Kent.	Station Agent.
<b>1447</b>	Bradley's Complete Manure for Potatoes and Roots.	Bradley Fertilizer Co., Boston, Mass.	Strong & Tanner, Winsted.	"
<b>1497</b>	Davidge Brand Potato Manure.	Russell Coe Fertilizer Co., New York.	M. S. Baldwin, Naugatuck.	M. S. Baldwin, Naugatuck.
<b>1512</b>	Forrester's Corn Manure.	G. B. Forrester, 169 Front St., New York.	Manufacturer.	S. B. Wakeman, Saugatuck.
<b>1514</b>	Forrester's Onion Manure.	G. B. Forrester, 169 Front St., New York.	"	"
<b>1513</b>	Forrester's Potato Manure.	G. B. Forrester, 169 Front St., New York.	"	"
<b>1418</b>	Mapes' Grass and Grain Spring Top Dressing.	Mapes' Formula and Peruvian Guano Co., New York.	J. P. Barstow, Norwich.	Station Agent.
<b>1483</b>	Mapes' Potato Manure.	Mapes' Formula and Peruvian Guano Co., New York.	Josiah Hawkins, Southport.	Edward Osborn, Fairfield.
<b>1455</b>	Mapes' Complete Manure for General Use.	Mapes' Formula and Peruvian Guano Co., New York.	Mapes' Branch, Hartford.	Station Agent.
<b>1458</b>	Mapes' Tobacco Manure, Connecticut Brand.	Mapes' Formula and Peruvian Guano Co., New York.	"	"
<b>1511</b>	Stockbridge Potato Manure.	Bowker Fertilizer Co., New York and Boston.	Hubbell & Bradley, Saugatuck.	S. B. Wakeman, Saugatuck.
<b>1428</b>	Americus Brand Potato Fertilizer.	Williams, Clark & Co., New York.	J. A. Paine, Danielsonville.	Station Agent.

## SUPERPHOSPHATES, SPECIALS AND GUANOS.

Station Agent.	Name or Brand.	NITROGEN.		PHOSPHORIC ACID.							POTASH.		Chlorine.	Cost per ton.	Valuation per ton.
		Found.	Guaranteed.	Soluble.	Reverted.	Insoluble.	Total Phos. Acid Found.	Phos. Acid Guaranteed.	Available.		Found.	Guaranteed.			
									Found.	Guaranteed.					
1510	Buffalo Fertilizer Works Superphos. [2]--	---	---	11.43	2.44	.47	14.34	---	13.87	11.0	1.52	1.4	\$30.00	\$26.13	
1411	Buffalo Fertilizer Works Ammoniated Bone Superphosphate	3.07	2.9	8.43	1.68	.85	10.96	13.0	10.11	10.0	1.73	1.0	40.00	31.06	
1509	Buffalo Fertilizer Works Ammoniated Bone Superphosphate	3.35	2.9	7.82	1.82	2.23	11.87	---	9.64	11.0	1.64	1.0	40.00	32.22	
1528	Baker's Acid Phosphate	18.57	.46	.97	18.10	---	19.03	17.0	19.03	17.0	---	---	---	34.19	
1551	Bay State Fertilizer	2.95	2.0	7.56	1.68	1.90	11.14	---	9.24	9.0	3.42	2.0	40.00	30.55	
1469	Bowker's Fish and Potash	2.62	2.2	4.66	2.18	1.14	7.98	8.0	6.84	---	4.94	4.0	---	26.42	
1494	Russell Coe's Soluble Bone Phosphate	---	---	6.53	3.90	5.49	14.92	12.0	10.43	10.0	2.14	1.5	31.00	24.20	
1491	Russell Coe's Soluble Bone Phosphate	---	---	4.88	4.88	4.30	14.06	12.0	9.76	10.0	1.51	1.5	30.00	21.31	
1492	Davidge Brand A. A. Ammoniated Bone Superphosphate	2.14	2.1	7.06	3.39	3.07	13.52	12.0	10.45	9.0	2.38	1.5	35.00	30.30	
1519	Forrester's Dissolved Bone Black	---	---	17.75	.18	.08	18.01	---	17.93	---	---	---	*29.00	32.37	
1416	Farmer's Friend Ammoniated Dissolved Bone	2.46	1.8	7.15	2.11	1.18	10.44	---	9.26	8.0	2.14	1.1	35.00	27.87	
1498	Miles' L. X. L. Superphosphate	2.17	---	6.27	1.72	3.59	11.58	---	7.99	---	1.98	---	---	26.40	
1454	Geo. W. Miles' Fish Fertilizer and Potash.	2.52	2.5	6.16	1.06	2.09	9.31	---	7.22	5.0	3.23	3.0	35.00	26.28	
1524	Mapes' High Grade Bone Superphosphate.	---	---	28.75	3.80	.93	33.48	---	32.55	33.0	---	---	58.00	58.57	
1523	Mapes' Pure Fine Bone Dissolved in Sulphuric Acid	2.07	2.0	5.34	15.25	1.86	22.40	---	20.59	12.0	---	---	35.00	42.94	
1448	Original Coe's Superphosphate of Lime	2.69	2.0	8.56	1.80	1.76	12.12	---	10.36	9.0	1.87	---	38.00	29.38	
1450	Preston's Ammoniated Bone Superphos.	2.57	2.5	6.48	1.68	2.02	10.18	---	8.16	10.0	1.85	2.0	37.50	26.78	
1506	Stearn's Ammoniated Bone Superphos.	2.65	2.2	7.71	1.49	.91	10.11	---	9.20	8.0	2.83	2.0	40.00	28.94	

\* In New York. Freight to Saugatuck, \$1.50.

## SUPERPHOSPHATES, SPECIALS AND GUANOS—continued.

Station Agent.	Name or Brand.	NITROGEN.		PHOSPHORIC ACID.						POTASH.		Chlorine.	Cost per ton.	Valuation per ton.
		Found.	Guaranteed.	Soluble.	Reverted.	Insoluble.	Total Phos. Acid Found.	Phos. Acid Guaranteed.	Available.		Found.	Guaranteed.		
1430	Steam's Fish and Potash, No. 1	2.54	2.5	2.80	2.10	5.02	9.92	----	4.90	3.0	4.86	4.0	\$45.00	\$25.69
1504	Union County Fertilizer	1.08	1.6	3.38	1.55	5.36	10.29	8.0	4.93	----	2.39	2.0	30.00	18.77
1470	U. S. Phosphate	1.72	1.3	5.37	1.78	5.5	7.70	----	7.15	6.0	2.52	2.0	32.00	21.28
1435	Fish and Potash	3.35	3.0	3.52	4.07	2.71	7.49	3.0	4.59	----	4.64	3.0	38.00	25.62
1550	Americus Ammoniated Bone Superphos.	2.22	1.6	7.61	2.21	7.4	7.30	10.0	9.82	9.0	2.64	2.0	38.00	29.26
1462	Baker's Complete Corn Manure	4.70	4.9	6.04	.40	.09	19.56	----	6.44	6.3	7.68	7.0	45.00	35.03
1447	Bradley's Complete Manure for Potatoes and Root Crops	3.14	3.3	8.58	1.61	1.39	11.58	----	10.19	8.0	6.38	4.5	45.00	35.85
1497	Davidge Brand, Potato Manure	2.09	2.5	5.92	5.39	3.85	15.16	----	11.31	8.0	5.22	4.1	44.00	34.32
1512	Forrester's Corn Manure	4.82	3.9	8.87	.11	.22	9.20	----	8.98	6.5	9.63	8.0	45.00	41.92
1514	Forrester's Onion Manure	6.21	5.3	7.79	.09	.12	8.00	----	7.88	3.5	7.65	7.0	45.00	45.41
1513	Forrester's Potato Manure	4.91	3.5	5.68	.28	.27	6.23	----	5.96	5.3	10.42	10.0	45.00	42.84
1418	Mapes' Grass & Grain Spring Top Dressing	5.54	4.1	7.68	3.10	.84	11.62	7.0	10.78	----	6.75	5.0	47.00	45.13
1483	Mapes' Potato Manure	4.27	3.7	8.70	2.72	.69	12.11	8.0	11.42	----	7.75	6.0	48.00	44.21
1455	Mapes' Complete Manure for General Use	5.71	5.0	7.70	3.32	1.97	12.99	10.0	11.02	----	3.69	3.0	48.00	44.45
1458	Mapes' Tobacco Manure, Conn. Brand	5.43	4.7	6.75	3.03	.98	10.76	7.7	9.78	----	7.79	7.7	50.00	47.93
1511	Stockbridge Potato Manure	3.81	3.3	6.79	.57	.95	8.31	----	7.36	8.0	6.40	7.0	45.00	33.79
1428	Williams, Clark & Co's Vegetable Fertilizer	3.40	3.0	6.16	1.19	.14	7.49	----	7.35	5.0	8.55	8.0	45.00	35.53

\* In New York. Freight to Saugatuck, \$1.50.





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